

MEDICINE

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Inventor(s): JOKAI SHOICHI; UKAI YOJIRO; AOKI TOMIYOSHI; IDEGUCHI KYOICHI
Applicant(s): NIPPON SHINYAKU CO LTD
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Abstract

PROBLEM TO BE SOLVED: To obtain a medicine, comprising a heterocyclic derivative as an active ingredient, having excellent suppressing actions on neuron necrosis and useful as a therapeutic agent for cerebral angiopathy.

SOLUTION: This medicine comprises a compound of formula I [$R<1>$ is an aryl or an aromatic heterocyclic ring; $R<2>$ is H, an alkyl, an alkenyl, a cycloalkyl, an alkoxy, etc.; $R<3>$ and $R<4>$ are each H, an alkyl or are bonded to adjacent N to denote a 5- to a 7-membered ring cyclic amino; A is a 2-10C alkylene; W is O, S or $(CH)_n$; (n) is 0-2; X, Y and Z are each CH, N, etc.] or its salt or a solvate thereof as an active ingredient. 4-(4-Fluorophenyl)-2-methyl-6-(4-piperidinobutoxy)pyrimidine is exemplified as the compound of formula I.

The compound of formula I is obtained by reacting a compound of formula II (Q is a halogen) with a compound of formula III in the presence of a base (e.g. NaOH) in a solvent (e.g. DMF) at 0-140 deg.C. The compound is capable of manifesting excellent suppressing actions on neuron necrosis, especially in the acute period of cerebral angiopathy and useful for suppressing the onset of the cerebral angiopathy and a sequela thereto.

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